DEVELOPMENT IN HARMONY WITH ENVIRONMENT
LCG BACKGROUND

Lao Consulting Group Ltd. (LCG) is a leading Lao-owned and Lao-managed consulting company that provides project implementation, engineering and design services across all sectors of economic activity. LCG was established in 2000 when Montgomery Watson of New Zealand decided to close their office that had been operational in Vientiane since 1993. At that time Mr. Khuanchai Siphakanlaya, the country manager, purchased the office and continued their operations as an independent private company incorporated in Lao PDR.

With a portfolio of more than 200 completed contracts, both local and international, during the past 20 years, and a current portfolio long-term project contracts valued at more than US$ 5 million, LCG’s success as a medium-sized private limited company is irrefutable. LCG’s client base includes all of the major multilateral funding agencies, international development banks, and bilateral aid agencies operating in Laos; as well as many Lao Government agencies and institutions, NGOs and private sector companies.

LCG POLICY

LCG is committed to providing high quality consulting services to assist our clients to design and implement development projects, and to developing Lao expertise by recruiting and training quality local staff and consultants, both of which contribute to the economic and social development of Laos. LCG aims to be one of the best in the new generation of 21st century consulting groups. It is our objective to deliver project solutions that are competitive, cost-effective and complementary to the clients’ strategies to support the environmentally-sensitive, ethnic-conscious, and sustainable social and infrastructure development programs to international standards.
LCG’S MANAGEMENT TEAM

Mr. Khuanchai Siphakanlaya, President
Mr. Siphakanlaya has a Masters in Civil Engineering from Bulgaria. He worked as a Hydropower Engineer with Electricite du Laos in 1993, after which he worked as a consultant in the transport sector on construction and contracts management, specializing in arbitration. He joined Montgomery Watson in 1995 as the Assistant Manager of their branch office in Vientiane, and then established and became the principal owner of Lao Consulting Group Ltd. in 2000 by buying out the Montgomery Watson office.

Ms. Manilay Bouavong, Managing Director
Ms. Bouavong obtained her engineering degree at the Montreal Polytechnic School in Canada, with a specialization in Project Management. She joined LCG in 2000 and was appointed Managing Director in 2004. Her responsibilities include the overall direction of the company, business development and contracts management, and managing LCG operations on a daily basis.

Ms. Arouny Anne Sakulku, CEng MICE, Director and Road & Structural Engineer
Ms. Sakulku is a Chartered Engineer registered in the UK and holds a Master of Transport from Australia. She has over 20 years of professional experience in road and structural engineering, project management, and technical evaluation of construction schemes. She previously worked at the ADB Lao Resident Mission as a Senior Project Implementation Officer. She joined LCG in 2005.

Mr. Henry Tucker, Director and Consultant on Natural Resources Management, Agriculture and Rural Development
Mr. Tucker has an MBA and an MSc in Natural Resources Management, as well as advanced studies in natural resources economics, from the USA. He has been working in Southeast and South Asia and the Pacific since 1975 on development projects for ADB, USAID, UNDP and others. He was an ADB staff for 12 years, including about 8 years in projects departments, a year in Consulting Services, and 3 years in the Operations Evaluation Department. He joined LCG in 2007 upon retiring from ADB.

Ms. Selena Sourignosack, Head of the Architecture Department
Ms. Sourignosack graduated from the College of Architecture in Houston, Texas. She has worked with various American architecture firms, gaining experience in different types of architecture. She has been involved in various projects from elementary school buildings to designer boutiques, offices and residential buildings. With her experience, she brings a new level and standard to the Lao architecture industry. She has been working with LCG since 2006.
Mr. Vannalerd Sourinphoumy, Head of the Water Supply and Sanitation

Mr. Sourinphoumy has a Master of Infrastructure Engineering and is a highly experienced water supply and sanitation engineer who is knowledgeable in all aspects of the water supply sector throughout Lao PDR, and particularly in the development and implementation of appropriate technologies, community participation, training and management for both rural and urban water supply. He has worked with multi-lateral and bilateral agencies, NGOs, as well as community organizations. He joined LCG in 1997.

LCG’S STAFF AND CONSULTANTS

LCG has 45 permanent staff comprising both Lao nationals and expatriates. Our multidisciplinary staff are our most valuable asset in terms of their technical backgrounds, and their knowledge of local institutional frameworks, government policies, and national and local cultures, norms and ethnic values. LCG has had up to 100 consultants in the field in recent years, providing both continuous and intermittent inputs on project on both long-term and short-term contracts. We maintain a roster of national and international consultants.
LCG has two major operations divisions—one to provide engineering and architectural services; and one to provide services in the agriculture, natural resources and environment, and rural development sectors. General services that cut across all sectors include the following:

**Capacity & Institutional Building:**
We have professional experience in building the technical and managerial capacity of local government institutions, educational institutes and communities. Capacity building for involved national, provincial and district agencies is an integral part of virtually all of our development projects; and many projects also build local community capabilities through interest group formation and training.

**Social and Environmental Safeguards:**
LCG staff are fully conversant with the Social and Environmental Safeguards Policies of the Government of Lao PDR, the Asian Development Bank, the World Bank Group, and the multi-lateral and bi-lateral agencies that support projects in Laos. LCG has conducted environmental impact assessments, and social census and assets surveys to support resettlement requirements for large infrastructure projects.

**Social and Environmental Surveys:**
LCG has extensive experience conducting social and environmental surveys, both as activities of larger projects and as stand-alone projects. To this end, we maintain a roster of trained local staff and consultants that we may call upon for specific survey work, and trainers who update our experienced survey workers and train new survey personnel according to the demands of each particular job. We also maintain connections with certified laboratories that perform analyses of water, soil and other samples taken in the field during our environmental surveys.
The Engineering and Architecture Division

Roads & Transport:
LCG’s experience in the road and transport sector in Lao PDR covers the full range from project planning and feasibility studies, to surveys and designs, construction supervision, and ultimately maintenance; including training and capacity building for Government counterparts.

Urban Development:
Our expertise in this sector includes carrying out feasibility studies and surveys, preparing project designs, and conducting construction supervision for a variety of urban infrastructure projects, including roads and drainage systems, water supply systems, sanitation and waste water treatment facilities; traffic census surveys; and project covering airport expansions, hospitals, universities, schools, and tourist facilities. We also have carried out safeguard compliance studies for the development of an industrial zone.

Water Supply & Sanitation:
LCG’s experience in this sector has included the survey and design of systems using participatory planning, management, monitoring and evaluation of urban and municipal as well as rural water supply and sanitation systems. We also develop and implement community management strategies to ensure sustainable system management at the local level.

Architecture:
Our expertise in this sector includes survey, design and construction supervision including construction permit process. We provide services in renovation of existing building, interior design and landscaping. Our experience runs from private housing, office building to factory.

Irrigation:
We provide a comprehensive range of services in the irrigation sector from hydrological surveys, feasibility studies, design, and construction supervision through to maintenance training, irrigation and water management, and irrigation management transfer. We can also assist in the institutional strengthening and capacity building of local sector agencies through training and technical support.

Hydropower:
LCG has conducted social census and assets surveys for project-affected peoples, and environmental impact assessments for hydropower development projects, and provided local technical support for water level monitoring, topographical and hydrographical surveys, and local costings for technical feasibility studies.
Agriculture:
With our deep, practical experience we provide a wide scope of services in sustainable agricultural and livestock development through training and extension practices with emphasis on appropriate technology, low-cost inputs and locally available materials. We have extensive experience establishing farmer production and marketing groups on projects supporting the production of rice and horticultural crops, commercial crops, small and large livestock, and fish.

Rural and Community Development:
We have the capability to conduct surveys, assessments, planning, implementation, monitoring, and evaluating rural and community development activities to ensure local involvement and project sustainability. Our approach is sensitive to the environmental, ethnic, livelihood, and gender needs.

Sustainable Energy:
We have the capability to conduct feasibility studies of sustainable and renewable energy production from identification through to impact. This includes field surveys, master plans, detailed designs, and construction supervision of both storage and run-of-river development schemes of hydropower components.

Adaptation to Climate Change:
We have developed our staff expertise to respond to the impacts of climate change on the environmental infrastructure and livelihoods of Lao communities. It is our belief that adaption to climate change should be mainstreamed in all development activities.
## SELECTED CURRENT AND RECENTLY COMPLETED PROJECTS

The following contracts are indicative of the range of sectors in which LCG works, the types of services provided, and the range of clients.

<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
<th>CONTRACTOR / FUNDING AGENCY</th>
<th>PERIOD</th>
<th>LCG CONTRACT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xe Pian Xe Namnoy Hydropower Project – Social and Environmental Impact Assessment (Lao PDR)</td>
<td>Xe-Pian Xe-Namnoy Power Co.</td>
<td>Oct 2012 – May 2013</td>
<td>$ 690,000</td>
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<tr>
<td>GMS Biodiversity Conservation Corridors Project (Cambodia)</td>
<td>MOE &amp; MAF / ADB</td>
<td>Jul 2012 – 2019</td>
<td>$ 2,603,675</td>
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<tr>
<td>GMS Biodiversity Conservation Corridors Project (Lao PDR)</td>
<td>GITEC Consult / ADB</td>
<td>Jul 2012 – 2019</td>
<td>$ 851,700</td>
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<tr>
<td>Nongteng – Ban Mai Road Construction Supervision</td>
<td>Vientiane DPWT</td>
<td>Feb 2012 – Mar 2014</td>
<td>$ 609,734</td>
</tr>
<tr>
<td>Capacity Enhancement for Coping with Climate Change</td>
<td>MONRE / ADB</td>
<td>Sep 2010 – Sep 2014</td>
<td>$ 390,480</td>
</tr>
<tr>
<td>Small Towns Water Supply and Sanitation Sector Project (Lao PDR)</td>
<td>MPWT / ADB</td>
<td>Aug 2010 – Sep 2014</td>
<td>$ 4,824,803</td>
</tr>
<tr>
<td>Northern Region Sustainable Livelihoods through Livestock Development Project (Lao PDR)</td>
<td>DHUP MPWT / ADB, IFAD, SDC</td>
<td>Nov 2008 – Mar 2014</td>
<td>$ 2,266,564</td>
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<tr>
<td>Northern and Central Regions Water Supply and Sanitation Sector Project (Lao PDR)</td>
<td>MPWT / ADB</td>
<td>Nov 2006 – Mar 2013</td>
<td>$ 2,850,593</td>
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<tr>
<td>Programme de Capitalisation en Appui à la Politique de Développement Rural (Lao PDR)</td>
<td>AFD</td>
<td>Jul 2005 – Mar 2010</td>
<td>$ 2,000,000</td>
</tr>
<tr>
<td>Smallholder Development Project (Lao PDR)</td>
<td>NAFES MAF / ADB</td>
<td>Dec 2004 – Dec 2014</td>
<td>$ 2,179,000</td>
</tr>
</tbody>
</table>
Creating Opportunities
In the past 20 years, we have surveyed, designed and/or supervised the construction of over 2,000 km of roads, linking remote communities to public services and opportunities. Villages in Houaphanh Province have enjoyed a 300 percent increase in income resulting from the road accessibility that LCG has facilitated under the Shifting Cultivation Stabilization Pilot Project.

Reducing Costs
Communities in four provinces under the Rural Access Roads Project have experienced, in some cases, as much as 76 percent reduction in transport costs as a result of improvements/rehabilitation carried out under our supervision. Our capability includes road roughness survey equipment and trained staff that have carried out road roughness surveys of the entire paved road network in Lao PDR on two successive occasions that has contributed to the updating of the data under the Ministry of Public Works and Transport’s Road Management System (RMS).

Using Appropriate Technology
The mountainous terrains of Laos have posed a challenge for the road sector especially the stabilization of cut slopes. We have been involved in the study and piloting of use of appropriate technology (bio-engineering) to stabilize cut and fill slopes more cheaply than structural methods and assisted in the dissemination of the studies through workshops and publication of manuals and guidelines for implementation.

Improving Environments
The urban sector also plays an important role in providing public services to the poor. LCG, through two successive water supply projects, have also facilitated the implementation of urban roads and drainage within over 14 small towns across the country to improve the urban environment and access to urban markets and services.

Building capacity
We provide not only services to implement the physic infrastructure, but are also focused on building capacities for road sector staff as well as the communities. We have been key contributor in four road maintenance-related projects and facilitated the dissemination of findings and studies through workshops and have helped the local authorities to establish and train several village road maintenance committees.
- Over 2,000 km of roads
- 300 percent increase in income resulting from the road accessibility
- 76 percent reduction in transport costs
- Implementation of urban roads and drainage within over 14 small towns across the country
Increasing production areas
Our engineers and agronomists, have been contributing to the country’s strive for food security through our services in the survey, design and/or construction supervision and facilitation of irrigation systems throughout the country with command areas totaling over 14,000 ha.

Creating ownership and community participation
Our community development specialists are key for the mobilization of the communities to participate in irrigation project activities and contribute to the construction and maintenance of irrigation systems and facilities. We have helped established and trained nearly 100 water user groups and water user associations under the Shifting Cultivation Stabilization Pilot, Oudomxay Community Initiatives Support, the Agricultural Development and the Northern Rural Infrastructure Projects.

Increasing efficiency
In combination with the agricultural specialists, our engineers have ensured the efficiency of water transported through the canal systems through the appropriate lining and cross-section designs to suit the different soil types. Production efficiencies have also been achieved in terms of the increase in cropping intensity and rice yields that has been made possible through irrigation improvements. In the case of the Agriculture Development Project, cropping intensity and rice yields have increased by 20 and 15 percent respectively.
- Irrigation systems areas totaling over 14,000 ha
- Established and trained nearly 100 water user groups and water user associations
- Cropping intensity and rice yields have increased by 20 and 15 percent respectively
LCG has been working in the water supply and sanitation sector since 1997. Our involvement in the sector at all levels has ensured that we have knowledge of most, if not all activities and initiatives in the sector from rural, urban and municipal water supply and sanitation. The company also has a proven track record of implementing externally-funded projects as a lead firm such as the ADB Grant 0016-LAO Northern and Central Regions Water Supply and Sanitation Sector Project, in which we are proud to have had the opportunity to support the Project Coordinating Unit (PCU) in winning the award for ADB’s Best Project of the Year for Lao PDR in 2009 and the ADB Grant No. 0143-LAO: Small Towns Water Supply and Sanitation Sector Project.

<table>
<thead>
<tr>
<th></th>
<th>POPULATION DESIGN</th>
<th>NETWORK LENGTH (KM)</th>
<th>NO OF TOWNS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NCWSSP</td>
<td>151,015</td>
<td>551</td>
<td>12</td>
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<tr>
<td>STWSP</td>
<td>159,547</td>
<td>337</td>
<td>11</td>
</tr>
<tr>
<td>Vientiane Water Supply Network Extension Project</td>
<td>60,000</td>
<td>129</td>
<td></td>
</tr>
</tbody>
</table>

**Water Supply**

Development a safe, affordable, reliable piped water supply systems.
**Sector Strengthening**
Strengthening of the regulation and management of water supply sector with tariff reform, corporate plans, review of private-sector-participation initiatives and capacity building of in management, operation and maintenance of a water supply and sanitation services.

**Participation, Awareness and Community Actions**
Develop a community participation program in consultation with village communities to increase community awareness of health, hygiene and sanitation to improve environmental conditions of households and villages. Encourage households to connect to the piped water supply system and improve their toilet facilities with education and training program. Promote sanitation in public areas like market with high tourism potential.
LCG has provided the implementation consultants for a number of important projects in the agriculture sector in Laos.

**Millennium Development Goals**
Our team has participated in pursuing the Lao Government Millennium Goals to bring the Country out of the least development countries list. LCG has provided technical assistance in sustainable agriculture production and food security. We have worked closely with the Lao Authorities on extension activities, promotion of new technology and crops to alleviate poverty increase the livelihood of farmers.

**Northern Region Sustainable Livelihoods through Livestock Development, 2008-2014 (ADB, IFAC and SDC funding)**
LCG is providing the project implementation consultants for this project focused on improving livestock production systems in the 5 northern provinces of Laos, including supporting the formation of livestock production groups and improving livestock management techniques. Our consultants’ performance contributed to the Livestock Department’s Project Management Unit winning the ADB Lao Resident Mission’s Best Project Award in 2011 and 2012.

**Programme de Capitalisation en Appui à la Politique de Développement Rural, 2004-2009 (AFD funding)**
This program included a sub-project entitled Point d’Application Bolovens (PAB) whose consultants focused on working with smallholder coffee producers on the Bolaven Plateau in southern Laos. Initially PAB assisted with the formation of smallholder coffee production groups, improved their coffee cultivation techniques, and provided them with local coffee cherry processing plants to improve the quantity and quality of their coffee beans. Subsequently PAB also supported the Association des Groupements de Producteurs de Café du Plateau du Bolovens (AGPC), or the Bolaven Plateau Association of Coffee Producer Groups, which has been highly successful in improving their coffee production and marketing systems, and has been held up by the Ministry of Agriculture as an example of how to organize farmers to improve their production, marketing and welfare.

**Smallholder Development Project, 2005-2014 (ADB funding)**
LCG in collaboration with the CIRAD has assisted the Lao Government to establish the first cooperative in the Association Producers Coffee in Laos funded by AFD, composes of over 2,000 families.
Shifting Cultivation Stabilization Pilot Project, 2002-2006 (ADB funding)
In the past 20 years, we have implemented the first project managed by the Provincial Government with the ADB Shifting Cultivation Stabilization Pilot Project, this project ....